Document made available under the Patent Cooperation Treaty (PCT)

International application number: PCT/US05/006854

International filing date: 04 March 2005 (04.03.2005)

Document type: Certified copy of priority document

Document details: Country/Office: US

Number: 60/551,077

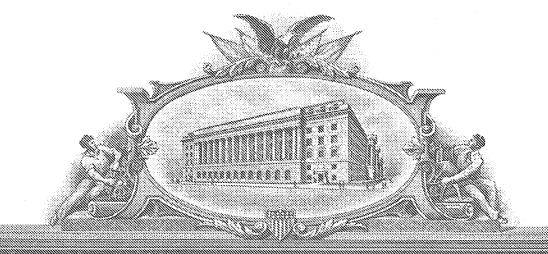
Filing date: 08 March 2004 (08.03.2004)

Date of receipt at the International Bureau: 31 March 2005 (31.03.2005)

Remark: Priority document submitted or transmitted to the International Bureau in

compliance with Rule 17.1(a) or (b)





'4'(d) Anil (100) Vancoda (na 12812; preus ben'is; salanti, codias:

UNITED STATES DEPARTMENT OF COMMERCE

United States Patent and Trademark Office

March 17, 2005

THIS IS TO CERTIFY THAT ANNEXED HERETO IS A TRUE COPY FROM THE RECORDS OF THE UNITED STATES PATENT AND TRADEMARK OFFICE OF THOSE PAPERS OF THE BELOW IDENTIFIED PATENT APPLICATION THAT MET THE REQUIREMENTS TO BE GRANTED A FILING DATE.

APPLICATION NUMBER: 60/551,077

FILING DATE: March 08, 2004

RELATED PCT APPLICATION NUMBER: PCT/US05/06854

1297454

Certified by

Under Secretary of Commerce for Intellectual Property and Director of the United States Patent and Trademark Office

		_	
	•	<u> </u>	_
		_	
	•	Ξ	2
1	ς		_
1	2		Ξ
•		2	۲.
•	•		

TELEPHONE 972-985-8442

PTO/SB/16 (01-04)

Approved for use through 07/31/2006. OMB 0651-0032)

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control numbed.

PROVISIONAL ADDITION FOR DATEMED COVERS CHEET.

PROVISIONAL APPLICATION FOR PATENT COVER SHEET This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c)

Express Mail Label No. EV320050389US

INVENTOR(S)

	INVENTOR)		1					
Given Name (first and middle [if any])	Family Name or Surname		Residence (City and either State or Foreign Country)						
AKHTAR	HASEEB		GARLAND, TX, USA						
Additional inventors are being named on theseparately numbered sheets attached hereto									
TITLE OF THE INVENTION (500 characters max)									
RESOURCE RESERVATION TO MINIMIZE CALL SETUP DELAY FOR PTT									
Direct all correspondence to: CORRESPONDENCE ADDRESS									
Customer Number: 021498									
OR				·					
Firm or Individual Name									
Address									
Address									
City		State	Zip						
Country		Telephone	Fax						
ENCLOSED APPLICATION PARTS (check all that apply)									
Specification Number of Pages 8 CD(s), Number									
Drawing(s) Number of Sheets	Oth	Other (specify)							
Application Data Sheet. See 37 CFR 1.76									
METHOD OF PAYMENT OF FILING FEES FO	R THIS PROVISIONAL APPL	ICATION FOR PA	TENT						
Applicant claims small entity status. See	FILING FEE								
A check or money order is enclosed to co		Amount (\$)							
	A check or money order is enclosed to cover the filing fees.								
The Director is herby authorized to charge filing fees or credit any overpayment to Deposit Account Number: 50-0210 \$160.00									
Payment by credit card. Form PTO-2038 is attached.									
The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government. No. Yes, the name of the U.S. Government agency and the Government contract number are:									
[Page 1 of 2]			Date MARCH 8, 2004						
SIGNATURE John J. Crane		REGISTRATION NO. 25,231							
			(if appropriate)						
TYPED or PRINTED NAME JOHN D. CRANE	Dock	Docket Number: 16853RRUS01P							

USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT

This collection of information is required by 37 CFR 1.51. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 8 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Provisional Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Resource Reservation to Minimize Haseeb Akhtar, Garland, TX, USA Provisional Patent Application Call Setup Delay for PTT Inventors:

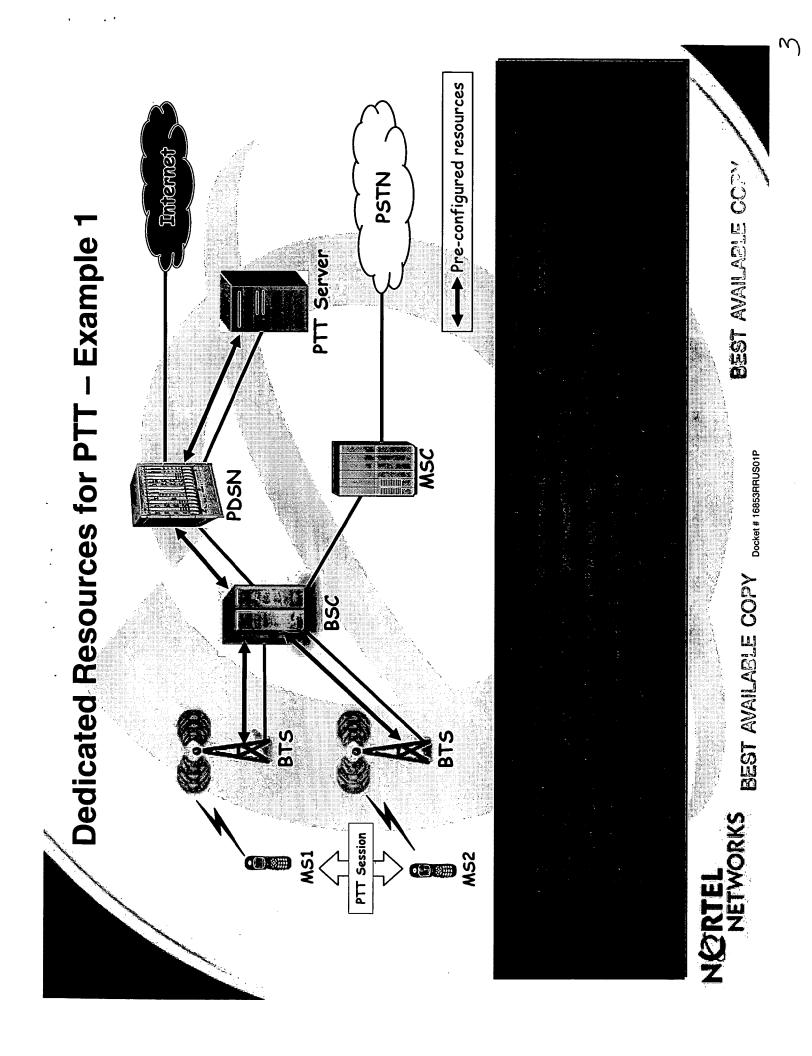
NCORTEL NETWORKS

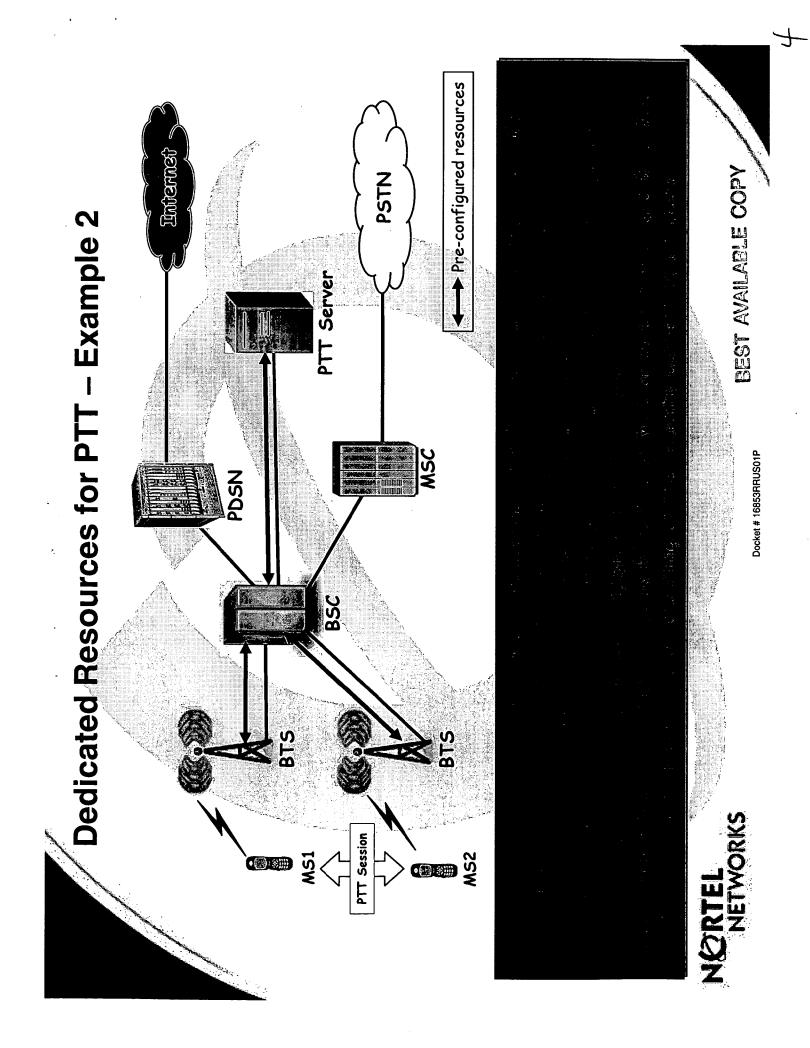
Docket Disclosure 16853RBUS01

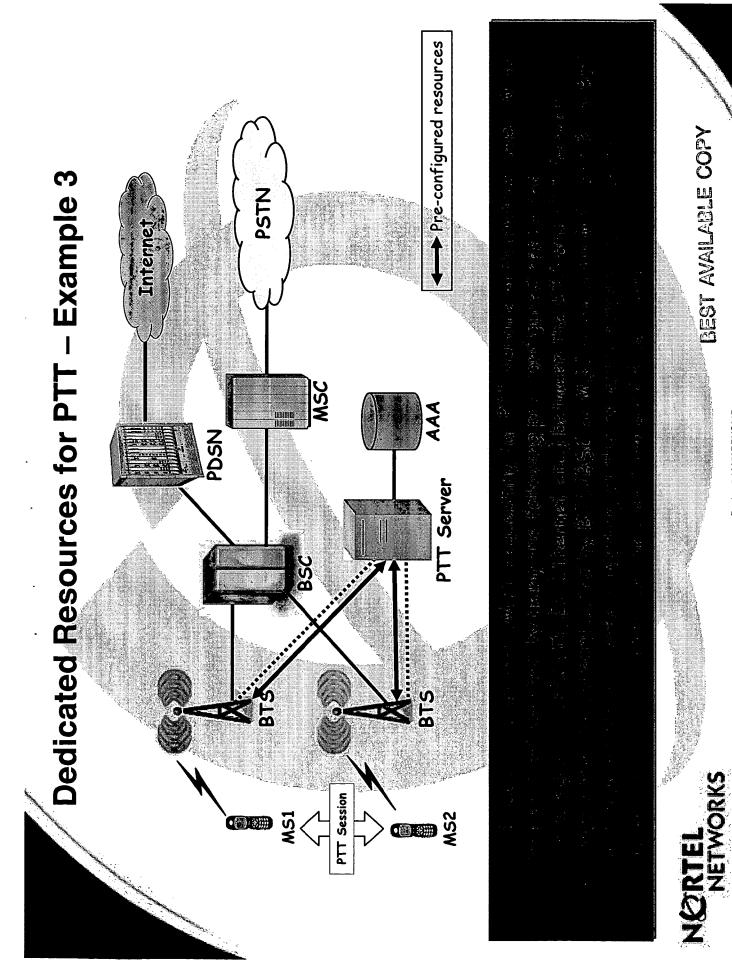
Overview

- Call setup time is an important quality metric for PTT (Push To Talk) application
- Call setup time can be substantially reduced by reserving resources for PTT บรers ล-priori
- Both access and core networks are impacted
- The BSC (Base Station Controller) routes the PTT calls through the preprovisioned channels as soon as the user is identified
- The access network must be able to identify the PTT users
- Signaling (such as SIP) and bearer (VoIP packets) traffics are routed through the dedicated channels
- BSC, PDSN and PTT Server may be connected through a managed IP
- Packets can be routed through dedicated IP routes with highest QoS
- Packets can also be routed through dedicated Ethernet (10xBT) interface
- BTS, BSC and MSC may be connected through T1/E1 trunks





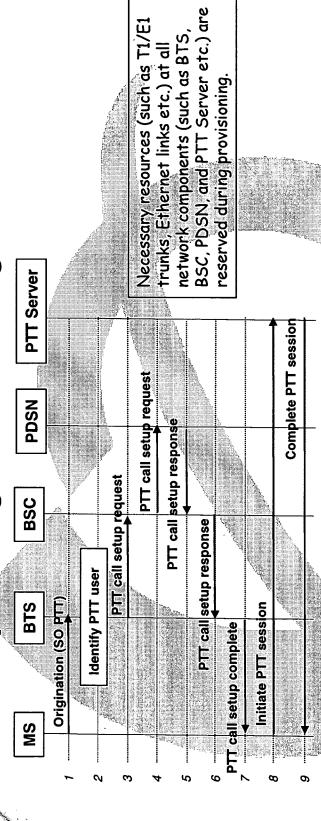




BEST AVAILABLE COPY

Docket # 16853RRUS01P

An Example of High Level Message Flow



BEST AVAILABLE COPY

Docket # 16853RRUS01P



Conclusions

- networks (such as BTS, BSC, PDSN, PTT Server etc.) can significantly minimize the call setup time for specific packet-based applications Reserving resources at the major nodes of the wireless access (such as PTT)
- Resources must be reserved while the provisioning of the network (and not during the call set up time).
- requesting a session for specific packet-based applications (such as The access network must be able to identify the users that are
- The hodes in the access network (such as BTS, BSC etc.) may store requesting a session for specific packet-based applications (such as enough information (user profile) to identify the users who are
- The identification of the application being requested may be stored in the other databases in the network (such as HLR, AAA etc.).



1. A Push-to-Talk (PTT) packet based CDMA wireless telecommunications system

comprising, in combination:

dedicated interconnection links between the network nodes utilized solely in supporting PTT calls so that interconnection links do not need to be established at call setup time a plurality of network nodes configured to process and route packet based voice calls; for a PTT call thereby improving call setup time for PTT calls.

respect of PTT users to further speed call setup when a previously supported PTT user 2. The system of Claim 1 wherein the network nodes retain control information with re-accesses the network.

